



ສະມາຄົມພັດທະນາຊຸມຊົນ ແລະສິ່ງແວດລ້ອມ (ສ.ພ.ຊ.ສ)  
Community Development and Environment Association  
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Concept paper to \_\_\_\_\_

Proposed project title: Installation of Photo Voltage (PV) System Unit for Khongmuang Health Post, Phousea zone, Hound District – Oudomxay Province

## 1. Project Background and Rationale

Hound district in Oudomxay province has a total population of 65,579 persons of which 33,003 are females and are mostly the Kamu ethnic group. In the district, the main health centre supports 9 other health posts in 9 zones of which each zone respectively responds to about 7 to 10 villages. The 9 zones are namely; Ngew, Xiengdee, Nampaun, Namphoon, Phakham, Sibounhueng, Phouviengxai, Navang, and **Phousea**. Each zone comprises a health post. This concept note concentrates on the health post, meeting hall and primary school in Phousea zone, is located in Khongmuang village. The distance from Hound Health centre district to Khongmuang is about 32 km. The health post and primary school in Khongmuang provide service to 10 villages nearby, including with Phoutum, Longkhon, Nampak, Tangya, Duo, Tanglon, Tadtale, Phousea, Phoulod and Khongmuang. The total population in these 10 villages is about 3,250 people. The students actually are from nearby of khongmuang, including with Phoutum, Longkhon, Tangya and Nampark villages. The distance from each villages are 6 to 9 km, students have to walk more than 2 hours to the school. Each year there are 100 students from those 4 villages, excluding with students in Khongmuang.

This health post is very much in need of electricity for lightings at night. Actually, for lighting at night in the health post really requires for treating patients especially women in the labor and also for the cooling system to keep the vaccines. There is no electricity being generated and no proper cooling systems in place for these areas. Even though they do not have diesel generators to fulfill the purposes, the capacity of these generators to support the centers in a more convenient manner is yet to be desired with the increasing fuel cost. Fuel consumption is about 20L/month with the actual cost at 11,000 kip/litre for diesel (0.9 Euro) and 12000 kip/litre (1.07 Euro) for petrol. Additionally, the meeting hall also really needs one PV system for generating lighting and loud speaker. The lighting and generating loud speaker is for meeting at night and also helping they access regularly of the information, along with enhancing parents' contribution to their children learning.

The health posts tend to rationalize the fuel usage by minimizing the usage of lighting to vaccination conservation. However, there were frequent problems relating to fuel shortage of which the generator could not fully support the conservation of vaccines to the required storage temperatures of -8°C thus resulting in their disposal. Hence, an alternative means of improved electrification source would greatly minimize such problems. Hence, this concept note is prepared purposely to install the PV systems (consists of solar panels

and batteries) which will minimize the costs of fuel and importantly avoid the loss of vaccines efficiency which cost a lot to purchase and also provide lightings.

The elementary school in Khongmuag village was built in 1992 by supporting from ADB 1 and there are including of 3 classrooms, consist of 198 to 200 students. Unfortunately, in 1996 this school was affected by natural disaster and almost damaged whole building. Presently the element school is really poor constructed; however, the villagers did the best they can to reconstruct the damaging building- with extremely limited budget and resources. Otherwise, in the rainy season the school could not continue the education, based on torn roofs and wall. Additionally, the stream of many younger students entering the school has grown fastly; however, some students spend up to two hours walking over the mountain to the nearly school. In the mean time, because of the large number of students, so they can not fit into the existing number of tables and chairs.

This project should promote the goal of the government of Lao PDR to increase the electrification ratio for the whole country from the current level of about 43% in 2004 to 90% by 2020, with intermediate Targets of 45% in 2005, 70% in 2010. Other, this project also helps to promote the government policy implications, the human resource development

As per the main project plan, the project activities do not response to the basic needs of education, electrification and information; the organization is motivated to assist the said Khongmuang village as a pilot project to equip them to fully serve the population to have access to better health care, education and public information. It is better to address such issue now rather than waiting for a major issue to arise and then to act.

## 2. Objectives:

The program will have 4 main objectives:

1. To provide PV System cooling unit to Khongmuang health post in Phousea zone.
2. To provide the training on management and maintaining of the established PV systems
3. To provide better lighting systems to the health centers
4. To provide PV system for meeting hall
5. To reconstruct of element school

## 3. Target Groups and final beneficiaries

The main target groups would be the 10 villages comprising of 3250 persons The villages in the Phousea zone are namely; Phoutum, Longkhon, Nampak, Tangya, Duo, Tanglon, Tadtale, Phousea, Phoulod and Khongmuang.

## 4. Proposed Activities:

### a. Installation of PV system – *Install 2 PV systems*

Carry out the installation of 2 x PV system at the Khongmuang health post and meeting hall.

**b. Maintenance training of the solar system – *Conduct 2 x training sessions***

After the completion of the PV system, 2 x training sessions will be conducted at the respective sites on how to maintain the systems after the project phases out for sustainability purposes.

**c. Installation of lighting system for the Health centers – *Installation of 10 lamps***

The lamps should complement the solar system installed. The lamps required for Khongmuang health post and meeting hall are 10 lamps. That is, 2 lamps for the dormitory, 3 lamps in the health post, 1 lamp near the refrigerator for vaccination cooling and 4 lamps in the meeting hall.

**d. Reconstruct of the element school-** Reconstruct 3 classrooms consist of roof, wall and floors**5. Short description about Community Development and Environment Association (CDEA)**

In early 2004 the government unveiled its new policy on local not-for-profit organizations (NPO) and their role in the socio-economic development of the country. CDEA was officially registered with the Lao PDR government on the 26 of February 2004, under the Lao Union of Science and Engineering Association (LUSEA). The organization had experiences in previous and on-going projects in the form of supporting and providing the training on the management of Village Development Fund , organic composting with schools and training and constructing bio sand filters for the rural communities. We'd like every much to pursue the mission of serving the rural communities with the donor's assistance through the implementation of these activities mentioned above.

**Budget**

The requested budget for PV \$ 5,950.53

The budget for school repair \$ 8,000 .00

Total Budget Requested \$ 13, 950.53

**Project Duration:** 3 month

Mr. Khampha KOEMANICHANH

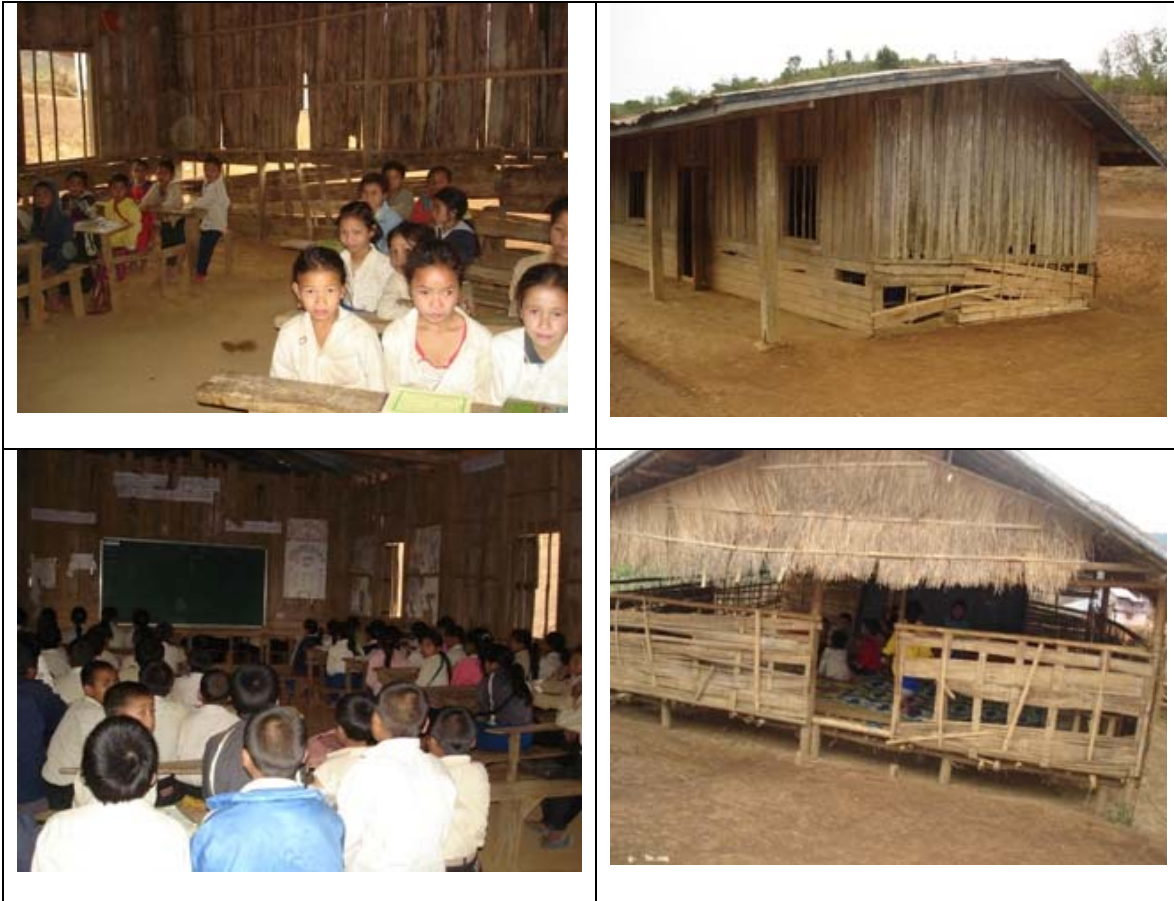
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Project map:

